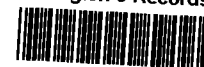


**United States Environmental Protection Agency
Region V
POLLUTION REPORT**

EPA Region 5 Records Ctr.



279609

Date: Tuesday, November 27, 2007

From: Sam Borries, OSC

To: Linda Nachowicz, epa
David Chung, EPA

Mike Harris, EPA
Paul Bucholtz, MDEQ

Subject: Kalamazoo River OU5 - Plainwell Impoundment
Plainwell & Kalamazoo, MI

POLREP No.:	4	Site #:	059BBB05
Reporting Period:	09/18/07 - 11/10/07	D.O. #:	
Start Date:		Response Authority:	CERCLA
Mob Date:		Response Type:	Time-Critical
Completion Date:		NPL Status:	NPL
CERCLIS ID #:		Incident Category:	Removal Action
RCRIS ID #:		Contract #	

Site Description

Refer to Pollution Report #1

Current Activities

During the week ending September 22, 2007, Arcadis BBL collected three pre-construction soil samples from the turnaround area located approximately 30 feet from the old entrance to the Plainwell Dam work area (K25736 to K25738); four sediment samples from Area 6B (K55309 to K55312); and two water samples from the Kalamazoo River (K30655 and K30656). Arcadis BBL split K55311 with START (Note: The START-designated name for the sample is APS-092007-07-SD/K55311).

Arcadis BBL also continued taking turbidity readings from three locations in the Kalamazoo River (one upstream and two downstream of the excavation areas).

Terra completed the excavation of sediment from Island 1 (which is located downstream of U.S. 131 and Island 2); continued the building of an access road to, and alongside, Area 6B; deployed a silt curtain along the riverside perimeter of Area 6B; initiated the excavation of sediment from Area 6B; initiated and completed grubbing activities in the area designated as Staging Area 3S; initiated the decommissioning of Staging Area 2S and the building of an access road to Staging Area 3S; and initiated the construction of a water treatment pad at the Plainwell Dam work area. Terra shipped seven loads of non-TSCA-level sediment (297.95 tons) to the C & C Landfill in Marshall, Michigan.

The Terra contractor, King Company, began preparing the Plainwell Dam powerhouse area

for the construction of the water control structure.

During the week ending September 29, 2007, Arcadis BBL collected four sediment samples from Area 6B (K55313 to K55316); and two water samples from the Kalamazoo River (K30658 and K30659). Arcadis BBL also continued taking turbidity readings from three locations in the Kalamazoo River (one upstream and two downstream of the excavation areas).

Terra continued its construction of Staging Area 3S (including the lining of the area with geofabric and a high-density polyethylene layer); removed the silt curtain in Area 1; began to water the vegetative mat in Area 1; began and completed the grubbing of vegetation in the section of the Plainwell Dam work area where the King Company will build the water control structure; began and completed the building of an earthen berm downstream of the location where King will build the water control structure; and began laying topsoil in Area 6B.

The King Company initiated the construction of the water control structure.

During the week ending October 6, 2007, Arcadis BBL collected one post-construction five-point composite soil sample from Staging Area 2S, following the decommissioning of this staging area (K25739); and two water samples from the river (K30661 and K30662). Arcadis BBL also continued taking turbidity readings from three locations in the Kalamazoo River (one upstream and two downstream of the excavation areas).

Terra continued the construction of Staging Area 3S and the direct-loading of impacted sediment, from Area 6B1, into dump trucks. Terra began pumping water out of Cofferdam Area 1, began deploying a silt curtain in Area 7, and began pumping water out of the bermed area immediately downstream of the former Plainwell Dam powerhouse. Terra shipped 59 loads of non-TSCA-level sediment (2,887.81 tons) to the C & C Landfill in Marshall, Michigan.

The King Company continued its operations related to the construction of the water control structure, while RMT began to establish a 5 to 1 slope along the shoreline of the 12th Street Landfill. JF New initiated and completed the restoration of Areas 3B and 4B.

During the week ending October 13, 2007, Arcadis BBL collected seven five-point composite sediment samples from Area 6B1 for the purpose of verifying the cleanup of Area 6B1 (K55317 to K55323), three water samples from the water treatment system located at the Plainwell Dam work area (W_CDA1_Influ_0001, W_CDA1_Mid_0001, and W_CDA1_Efflu_0001), 11 soil samples from the work area encompassing Areas 2B to 4B (K25740 to K25750), and two water samples from the Kalamazoo River (K30664 and K30665).

Terra initiated and completed the grading of the backfill in the area encompassing Staging Area 2S; initiated the excavation of sediment from Cofferdam Area 1, as well as the deployment of a pugmill at Staging Area 5S; and continued the excavation of sediment from Area 6B1 and the direct-loading of Area 6B sediment into dumptrucks. Terra also continued

to pump water from the bermed area immediately downstream of the former Plainwell Dam powerhouse; and treated this water in the water treatment system staged at the Plainwell Dam work area. Terra shipped 74 loads of non-TSCA-level sediment (3,653.41 tons) to the C & C Landfill in Marshall, Michigan.

The King Company continued its operations related to the construction of the water control structure, while RMT laid geofabric and river run rock along the shoreline of the 12th Street Landfill area.

During the week ending October 20, 2007, Arcadis BBL collected two sediment samples from Area 6B1 (K55324 and K55325), and split one of these samples with START (K55325). Note: The START-designated name for this sample is APS-101507-09-SD/K55325. Arcadis BBL also collected 16 water samples from the water treatment system located at Staging Area 3S (W_SA3S_Influ_0001 to W_SA3S_Influ_0003, W_SA3S_MidA_0001 to W_SA3S_MidA_0003, W_SA3S_MidB_0001 to W_SA3S_MidB_0003, one duplicate sample (W_SA3S_Dup_0001), W_SA3S_EffluA_0001 to W_SA3S_Efflu_0003, and W_SA3S_EffluB_0001 to W_SA3S_EffluB_0003); three water samples from the water treatment system located at the Plainwell Dam work area (W_CDA1_Influ_0002, W_CDA1_Mid_0002, and W_CDA1_Efflu_0002), and two water samples from the Kalamazoo River (K30667 and K30668). Arcadis BBL also continued taking turbidity readings from three locations in the Kalamazoo River (one upstream and two downstream of the excavation areas).

Terra began backfilling the western end of Area 6B1 with sand, and continued to excavate sediment out of Cofferdam Area 1. Terra also excavated sediment from Area 7, and shipped two loads of non-TSCA-level sediment (47.87 tons) to the C & C Landfill in Marshall, Michigan.

The King Company continued its operations related to the construction of the water control structure.

During the week ending October 27, 2007, Arcadis BBL collected five water samples from the water treatment system located at Staging Area 3S (W_SA3S_Influ_0004, W_SA3S_MidA_0004, W_SA3S_MidB_0004, W_SA3S_EffluA_0004, and W_SA3S_EffluB_0004), three water samples from the water treatment system located at the Plainwell Dam work area (W_CDA1_Influ_0003, W_CDA1_Mid_0003, and W_CDA1_Efflu_0003), one soil sample from Consumers Energy property located immediately west of the entrance to the Plainwell Dam work area (K25751), and three water samples from the Kalamazoo River (K30670 to K30672). Arcadis BBL also continued taking turbidity readings from three locations in the Kalamazoo River (one upstream and two downstream of the excavation areas).

Terra excavated sediment from Cofferdam Area 1 and staged this sediment at the 5S Staging Area; began laying topsoil in Area 6B1; continued to adjust the silt curtain in Area 7 (including the installation of three metal sheets and metal fencing at the upstream point of the area); began excavating sediment from Area 7; and began loading sediment from Staging

Area 5S into dumptrucks for shipment to the landfill. Terra shipped 25 loads of non-TSCA-level sediment (1,166.64 tons) to the landfill in Marshall, Michigan.

The King Company continued its operations related to the construction of the water control structure, while RMT completed the 5 to 1 slope along the shoreline of the 12th Street Landfill area, as well as the laying of topsoil along this slope. Also, an RMT contractor, Frontier Solutions, seeded the topsoil at the 12th Street Landfill area, laid a synthetic fabric over the slope, and hydroseeded the slope. Consumers Energy de-energized the powerlines over the Plainwell Dam work area.

During the week ending November 3, 2007, Arcadis BBL collected nine water samples from the water treatment system located at Staging Area 3S (W_SA3S_Influ_0005 and W_SA3S_influ_0006, W_SA3S_MidA_0005, W_SA3S_MidB_0005 and W_SA3S_MidB_0006, W_SA3S_Dup_0002, W_SA3S_EffluA_0005, W_SA3S_EffluB_0005, and W_SA3S_Efflu_0006). Arcadis BBL also took turbidity readings from three locations in the river (one upstream and two downstream of the excavation areas).

Terra continued to excavate the impacted sediment from Cofferdam Area 1 and continued to haul this sediment to Staging Area 5S for treatment; initiated the setup of a pugmill at Staging Area 3S; continued the deployment of silt curtains in Areas 7 and 8; continued to pump water out of Cofferdam Area 1 and continued to treat this water on site; and continued to excavate sediment from Area 7. Terra shipped 28 loads of non-TSCA-level sediment (1,289.79 tons) to the C & C Landfill in Marshall, Michigan.

The King Company continued to build the water control structure, while RMT graded approximately four truck loads of sand over the surface of the 12th Street landfill.

During the week ending November 10, 2007, Arcadis BBL collected five water samples from the water treatment system located at the Plainwell Dam work area (W_CDA1_TS002, W_CDA1_TS003, W_CDA1_Influ_0004, W_CDA1_Mid_0004, and W_CDA1_Efflu_0004); and four water samples from the Kalamazoo River (K30675, K30677, K30674, and K30676), and continued taking turbidity readings from three locations in the river (one upstream and two downstream of the excavation areas.)

Terra continued to excavate the impacted sediment from Cofferdam Area 1 and continued to haul this sediment to Staging Area 5S for treatment; initiated the demolition of the concrete retaining wall of the former Plainwell powerhouse; and continued the excavation of sediment from Area 7. Terra shipped 27 loads of non-TSCA-level sediment (1,224.66 tons) to the C & C Landfill in Marshall, Michigan.

The King Company continued to build the water control structure.

To date, Terra has excavated and restored approximately 6,800 linear feet of shoreline along the Kalamazoo River. The total to date of material excavated and disposed is 31,304 tons which equates to approximately 24,080 cubic yards.

Planned Removal Actions

Refer to Pollution Report #1

Next Steps

Complete the installation of the water control structure at the Plainwell Dam; complete excavation of sediment downstream of the water control structure in preparation for the installation of erosion protection measures; complete the demolition of the former Plainwell powerhouse; and complete the sampling of Area 7.

Key Issues

None

Estimated Costs *

	Budgeted	Total To Date	Remaining	% Remaining
Extramural Costs				
RST/START	\$150,000.00	\$113,034.00	\$36,966.00	24.64%
Intramural Costs				
Total Site Costs	\$150,000.00	\$113,034.00	\$36,966.00	24.64%

* The above accounting of expenditures is an estimate based on figures known to the OSC at the time this report was written. The OSC does not necessarily receive specific figures on final payments made to any contractor(s). Other financial data which the OSC must rely upon may not be entirely up-to-date. The cost accounting provided in this report does not necessarily represent an exact monetary figure which the government may include in any claim for cost recovery.

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